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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,910	08/27/2003	Andrew Z. Glovatsky	10541-1846	4397
29074	7590	09/15/2006	EXAMINER	
VISTEON			BUI, HUNG S	
C/O BRINKS HOFER GILSON & LIONE			ART UNIT	
PO BOX 10395			PAPER NUMBER	
CHICAGO, IL 60610			2841	

DATE MAILED: 09/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/648,910

Applicant(s)

GLOVATSKY ET AL.

Examiner

Hung S. Bui

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>08/27/2003</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-4 and 8-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Payton [US 6,351,383].

Regarding claim 1, Payton discloses an assembly (figures 1-2) having an axis and comprising:

- a first support (30 or 30a) perpendicular to the axis and having a first support perimeter (figure 2);
- a first microelectronic module (80) affixed to the first support;
- a second support (30 or 30b) perpendicular to the axis and having a second support perimeter (figures 6a-6b);
- a second microelectronic module (80) affixed to the second support; and
- a plurality of ribs (44), each rib being attached to the first support at the first support perimeter outboard the first microelectronic module and to the second support at the second support perimeter outboard the second microelectronic module and extending axially therebetween to maintain the first support and the second support in parallel, spaced relationship (figures 6a-6b).

Regarding claim 3, Payton further discloses wherein the first support perimeter and the second support perimeter are substantially coextensive (figure 1).

Regarding claim 4, Payton discloses wherein the first support perimeter comprises a first attachment tab (48), wherein the second support perimeter comprises a second attachment tab (48) and wherein the rib (44) attaches between the first and second attachment tabs (figures 6a-6b).

Regarding claim 8, Payton discloses the assembly further comprising: a housing (12) having an inner wall and a housing axis (figures 1-2), and wherein the microelectronic assembly is coaxially received in the housing (figure 1); the ribs engaging the inner wall and spacing the first and second microelectronic module and the first and second support spaced apart from the inner wall (figures 6a-6b).

Regarding claim 9, Payton further discloses wherein the spacing between the inner wall and the first and second microelectronic is adapted for cooling airflow (figure 1).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Payton in view of Moxon [US 4,503,484].

Regarding claim 2, Payton discloses the instant claimed invention except for a connector strip connected to the first microelectronic module and to the second microelectronic module and extending axially for connecting the first microelectronic module and the second microelectronic module to an external circuit.

Moxon discloses an assembly having a first electronic module (124) connected to a second electronic module (124, figure 5) and to an external circuit (482, figure 4) by means of at least one connector strip (165, figure 5).

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to use the connector strip of Moxon in the assembly of Payton, for the purpose of electrical interconnection between the electronic modules.

Regarding claim 7, Payton discloses the first and second microelectronic modules are generally circular and includes at least one chordal edge (figure 1).

Payton discloses the claimed invention except for the connector strip connected at an edge of the microelectronic module.

Moxon discloses the substrate (124) having at least one connector strip (165) mounted at an edge of the substrate (figure 5).

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to use the connector strip at an edge of the substrate of Payton, as suggested by Moxon, in order to save spacer in the assembly.

5. Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Payton in view of Ronald Walsh [US 3,596,140].

Regarding claim 5-6, Payton discloses the first and second microelectronic module including a plurality of components mounted thereon (figures 1-2).

Payton discloses the claimed invention except for the first and second microelectronic modules being formed of flexibility.

Ronald Walsh discloses an assembly having first and second flexible substrates (12) including a plurality of components mounted thereon (figure 1).

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to use the flexible substrate design of Ronald Walsh in Payton, for the purpose of protecting the microelectronic module being cracked from vibration and enabling to mount the microelectronic module onto the support.

Conclusion


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung S. Bui whose telephone number is (571) 272-2102. The examiner can normally be reached on Monday-Friday 8:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2841

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

9/7/06
Hung Bui
Art Unit 2841


Tuan Dinh
9-13-06.